Government of India  
Ministry of Shipping, Road Transport & Highways  
Department of Road Transport & Highways  
Transport Bhavan,  
No.1, Parliament Street  

No. RW/NH-33044/1/2007-S&R(R)  
New Delhi, 24.10.2007

To

1. The Secretaries (PWD), Engineers-in-Chief and Chief Engineers of State PWDs And UTs (Dealing with National Highways).
2. The Chairman, National Highways Authority of India, G-5&6, Sector-10, Dwarka, New Delhi-110075
3. The Director General (Border Roads), Seema Sadak Bhawan, Ring Road, Delhi Cantt., New Delhi-110010.

Subject: Provision of traffic signs (including Variable Message Signs) and Pavement marking on National Highways and other roads improved / developed under Centrally Sponsored Schemes.

Sir,

A Committee was constituted in the Ministry to prepare interim guidelines for Variable Message Signs. The Committee has submitted its report which is enclosed at Annex-I.

2. It is requested that variable message signs as per the interim guidelines may be provided in selected projects on experimental basis and your comments / suggestions / feedback may be sent at the earliest to enable the Ministry to finalize the guidelines.

3. In respect of road signs and road markings the recommendations of the Committee are being considered separately.

Yours faithfully,

(Arun Kumar Sharma)  
Chief Engineer (S&R)R  
For Director General (Road Development) & S.S.  
011-23719850

Encl: As above
1. **Safety Issues in the country:**

1.1 Road safety on roads in India is amongst the poorest in the world. More than 90,000 lives are lost on Indian roads every year. As per a rough assessment, road accidents cause financial loss to the country to an extent of 2% to 3% of GDP, besides the loss to the individuals and agonies to the families of the victims.

1.2 The earlier thinking that human factor is a major cause of accidents on roads is now changing and it has been now recognized world over that the road system also contributes significantly for human to commit mistakes. The road system, therefore, should be such that it takes into consideration the human failings. Developed countries have been able to bring about considerable improvement in the safety on their road by recognizing this important aspect and constructing their road system as ‘forgiving’ as possible.

1.3 In the recent past, with the rapid economic growth in the country, the demand for better facilities and infrastructure has increased. The road system is now getting new attention. Improved roads would lead to increased speeds and enhanced aspirations of the people for a safe and efficient movement.

2. **Earlier Circulars of the Ministry:**

2.1 Traffic signs and road markings are the basic essential tools for guiding the drivers to reach their destination, regulating their movement, cautioning the driver of the dangers ahead and informing the driver for the facilities available en-route. No road should be considered to be fit for the use unless it has been provided with adequate system of traffic signs and road markings.

2.2 Ministry has been issuing circulars, guidelines and instructions from time to time for provision of an adequate system of traffic signs and road markings on National Highways which are equally applicable for other roads. A list of these circulars is enclosed at Annex – I. Indian Roads Congress has also published guidelines and Codes of Practices for traffic signs and road markings and for other features of safety on the road, the list of which is at Annex – II.
3. **Importance and principles of signs and markings:**

3.1 Road improvement in the country has been taken up on a large scale with the launching of National Highway Development Project (NHDP) under its various phases and State Governments having their own programmes for improvement of state roads. It has been found that though signs and markings are provided on these improved roads but they are still far from the appropriate system to meet the intended requirements of safe and efficient travel. Now that the objective is to develop the national Highway System to a world class standard, it is imperative that all the roads including those which are under improvement / upgradation are provided with a detailed system of traffic signs and pavement markings.

3.2 The traffic signs and markings for promoting highway safety and efficiency have to be effective and should meet the following basis requirements for that objective:

(i) They should fulfill a specific need as per the site situation;

(ii) They should command attention from all categories of road users;

(iii) They should convey a clear, precise meaning in a simple form;

(iv) They should command respect from road users and for this, they should be correct and uniform throughout;

(v) Their placement should give adequate time for a proper response;

(vi) They should be conspicuous to attract attention of the drivers and should be legible from sufficiently far away to be read without diverting the line of sight through too great an angle; and

(vii) They should be placed such that they are not obscured by other objects or vegetation and no clustering has taken place;

(viii) Road markings should be clear and visible during the hours of darkness so that drivers can see them clearly in time to position themselves correctly.
4. **Commonly used signs and markings:**

4.1 Some of the important commonly used signs, as per IRC:67, are listed below:

I. **Mandatory / Regulator Signs:**
   - ‘Stop’ and ‘Give Way’ signs;
   - ‘No Parking’ and ‘No Stopping’ signs;
   - ‘Speed Limit; and Vehicle Control’ signs;
   - ‘No Overtaking’ signs
   - ‘Compulsory Direction Control; and other signs.

II. **Cautionary / warning signs:**

   - Curve signs;
   - Narrow Bridge / Narrow road;
   - Road widens;
   - Gap in median;
   - Pedestrian crossing;
   - School;
   - Men at work;
   - Cross road / side road;
   - T-Intersection / Y-Intersection;
   - Major road ahead;
   - Roundabout;
   - Unguarded Railway Crossing;
   - Speed Breaker;
   - Reduced carriageway
III. Informatory Signs:

i) Direction and place identification signs:

- Advance direction signs;
- Destination sign;
- Place/City identification;

ii) Facility Information signs:

- Public telephone;
- Filling Station (Petrol Pump);
- Hospital;
- Resting Place;

iii) Other useful information signs:

- Airport;
- Bus stop;

4.2 Some of the important commonly used road markings, as per IRC:35, are listed below:

I. Longitudinal markings:

- Traffic lane markings
- Warning lines
- Centre line
- Edge lines
- Bus lane markings
- Cycle lane markings

II. Markings on intersections:

- Give way lines
- Stop lines
- Pedestrian crossings
- Protected right turn lanes
- Direction arrows
- Box markings

III. Markings at hazardous locations:

- Carriageway width transition markings
- Diagonal markings
- Chevron markings
IV. Markings for parking:

- Bus stops
- Parking restrictions

V. Word messages

- Stop
- Bus
- Keep clear
- School

VI. Object marking:

- Objects within and adjacent to carriageway
- Kerb markings

5. Variable Message Signs:

5.1 Traffic signs and markings are the basic tools for enhancing safety on road system. Traditionally fixed message signs are commonly used which could be either kerb mounted or gantry mounted. With extensive use of information and communication technologies in various aspects of road transport and increase in trips with demand for information on real time basis, the signs could be varied as per the traffic conditions. These are called Variable Message Signs. With the advancement of road transport system in the country, it has now become necessary that Variable Message Signs (VMS) are also used on National Highway network as and when and where considered required.

5.2 Intelligent Transport Systems (ITS) is now used worldwide for safety enhancement of existing infrastructure and for its optimal utilization. Advanced Traffic Management Systems (ATMS) is one of the components of ITS which is provided for management of traffic as well as for providing safety and information on traffic conditions to the users on real time basis. It mainly comprises systems for emergency calls, variable message signs, traffic counting, surveillance, weather monitoring and integration of various systems.

5.3 Variable Massage Signs (VMS) are quite useful in conveying the traffic conditions ahead to the drivers on real time basis as well as to display messages to support national road safety campaigns. It may also include the variable traffic speed limit depending upon the requirements.

5.4 Variable Message Signs are capable of displaying several messages in a sequence and can be repeated. Such messages can be charged manually, by remote control or by automatic control. Variable Message signs shall display pertinent traffic operation and guidance information only and not any advertising. Various situations where VMS would
be appropriate are as below:

i) Incident signs as accidents, traffic diversions, incident management, monitor road work (men at work) adverse whether and road conditions and operation with lane control signals;

ii) Traveler information such as display of road construction activity in near future, messages for testing of the system and special events that effect the traffic flow;

iii) Public service announcements like messages relating to driver safety campaign.

5.5 Technical requirements:

The system shall use Light Emitting Dodes (LEDs)/high gain trans-reflective Liquid Crystal Displays (LCDs) for outdoor ambient sunlight. The system should comply with European Standard (EN-12966. The minimum height of character shall be 300mm so that display is eligible from a distance of 200m. The design and provision of Variable Message Signs should be done after careful consideration of its need. Following aspects should be considered;

i) Collection of preliminary data i.e. intended purpose, type of information to be displayed and alternate diversion routes available;

ii) Type of VMS i.e. intended purpose, information to be displayed and technology to be used;

iii) They are visible in all weather conditions including foggy and misty conditions;

5.6 Fixed VMS:

Their placement should be as below:

a) Fixed VMS shall be mounted on a sturdy and aesthetically pleasing gantry structure whereby the vertical clearance of at least 5.5m is available from the road. Safety barriers shall be provided at gantry support column(s) for their protection and for safety of road users. The concrete pedestal for support column should be flushed with ground but in no case should protrude for more than 15 cms.

b) The minimum distance of VMS on an expressway should be 1.5 km. prior to decision point and that for National Highways it should be 1 km. The signs should be visible from a distance of 300m. It should not be located on a curvature and on a highway section having grade exceeding 4%;

c) Location and source of power along the road segment if it is not solar power.
d) There should be clear distance between existing sign and VMS. On expressways the minimum distance between road signs and VMS should be at least 250m which should be 150m on National Highways.

5.7 Portable VMS:

The variable message signs can be fixed or portable. Portable signs can be mounted at the back of the truck or similar vehicle. The portable VMS signs mounted on a truck could be powered by solar energy or battery and show the sign of 'men at work' and/or speed limits in the construction zone. Proper placement of a portable VMS is critical to its effectiveness. The placement must give adequate time to the motorists to react to the message and take corrective action. On Expressways and National Highways placement of these at 2 km. prior to the decision points should be done with repetition at every 500m. It should provide a sight distance of 300m and should not interfere with other traffic control devices. If the portable VMS set up along the roadway and a message was not to be required for a period of next four hours or more, the sign panel should be turned away from the traffic, parallel to the road centre line. No blank signs should be facing the drivers for an extended period.

5.8 Under no circumstances VMS shall be used for advertising of any kind. It would be in blank mode when traffic, roadway, environment or pavement conditions or public service announcements do not warrant the display of message or messages.

5.9 The average driver of motorized vehicle at high rate of speed can comprehend two message panels. Each panel should be complete phrase and each phrase should be independent of the other. The messages should consist of:

- A problem statement: Road work/accident ahead
- An effect statement: Delay/congestion
- An attention statement for certain group: Motorist
- An action statement: Take the next carriageway

5.10 Some typical messages are as given below:

- Accident ahead, Road Closed, Take Diversion;
- Accident AHEAD', followed by some typical messages like 'Expect Delays', Merge Right', Merge Left', 'All Traffic Exit' can be displayed.
- Maximum Speed: _________ Kmph.
- Speed Limit Strictly Enforced
- Construction Work, Road Closed;
- Signal Ahead;
- Sharp Curve Ahead;
-8-  

- Congestion ahead;  
- Bad weather conditions like 'Heave Fog Ahead', 'Poor Visibility Ahead'  
- Trucks Use Left Lane;  
- Watch for Stopped Traffic;  
- Watch your speed;  
- Watch for Falling Rocks; (In the case of landslide prone areas);  
- Two Way traffic Ahead (This message can be displayed where the road section abruptly changes from Four/Six lane divided section* to two lane bi-directional carriageways).  
- No Mobile When Mobile;  
- Drunken Driving Prohibited.

6. **Planning for sign and marking systems:**

Following aspects are required to be kept in mind so as to provide proper system of signs and markings on National Highways in the country;

6.1 The traffic signs on National Highways and other roads must conform strictly to the configuration, colour scheme and location as prescribed in IRC:67-2001, which is also based on the UN Convention on Road Signs and Signals, Vienna November 1968 of which India is one of the signatories.

6.2 All road markings shall conform strictly to the stipulations contained in IRC:35-1997 in terms of application, colour scheme and layout.

6.3 The traffic signs and markings shall be uniform throughout the country and no individual officer, in charge of any project / road section, shall change it or modify it without referring the matter to Director General (Road Development), Ministry of Shipping, Road Transport & Highways. In case, some of the sign requirements are neither covered in IRC:67-2001 and marking requirement in IRC:35-1997 nor in UN Convention on Road Signs and Signals at Vienna, the matter would be referred to the Ministry with suggestions and full justification and the new signs and markings shall be adopted only after due approved from the Ministry.

6.4 The traffic signs will have only legends and figures. If any message for a particular sign is to be emphasized through words, the same would be done by putting the emphasized message on a definition plate below the sign as prescribed in IRC:67.

6.5 Message such as “Drive Slowly” “Someone is waiting for you at home” etc. are redundant since they cannot be ready while driving on a highway. Therefore, all such messages in words are not to be provided.

6.6* Traffic signs and their supports shall not bear any advertising message that is not related to traffic control. The Ministry’s circular No. RW/NH-33023/31/88-DO-III dated 22.03.1996, 19.03.1997 and 09.02.1998 relating to private participation in provision of traffic signs on National Highways is hereby withdrawn.
6.7 Uniformity of traffic signs and markings is vital for their effectiveness and for commanding respect retention. Change of signs in terms of their configuration, placement and colour scheme confuses the users and defeats the very purpose of signs.

6.8 The placement of signs should be such that no clustering takes place. In case the site conditions demands more than one sign to be provided at a particular location, then instead of putting one after the other, they should be placed on a single support one over the other or on an overhead cantilever support side by side. While doing so the order of prominence given would be regulator cautionary and informatory.

6.9 While deciding the exact placement of sign, care has to be taken that they are clearly visible to approaching driver and are not hidden behind a bush, branch of tree or any other object.

6.10 The selection of the retro reflective sheeting for signs shall be in accordance with Ministry’s specifications with prescribed guarantee.

6.11 Support for the signs should be GI pipes which would be safer compared to channel or angle iron supports with edges.

6.12 All traffic signs shall be on retro-reflective sheeting’s and rod markings with thermoplastic paint with glass beads.

6.13 The entire National Highway stretch shall be provided with an elaborate system of pavement marking. IRC:35 prescribes use of white colour for road markings. Yellow colour is allowed only for parking restrictions, obstruction approach markings, no overtaking zone markings.

6.14 All traffic signs and markings shall be properly maintained so that they are clearly visible at all time especially during night and in inclement weather. Damaged/defective/worn out signs and markings shall be replaced on immediate basis.

* Circulars of this Ministry mentioned in para 6.6 are not being withdrawn at present.

6.15 The provision of overhead signs especially on two lane and four lane roads should be carefully done keeping in view the following conditions:

- Traffic volume at or near capacity;
- Complex interchange design;
- Three or more lanes in each direction;
- Restricted sight distance;
- Closely spaced interchanges;
- Multi-lane exits;
- Large percentage of commercial vehicles;
- High speed traffic;
- Consistency of sign message location through a series of interchanges.
Insufficient space for ground mounted signs
Background of street lighting
Distances of important places enroute highways at suitable intervals.

6.16 Overhead signs shall be supported on cantilever and gantry structures which are
designed to be aesthetically pleasing and sleek. Circular columns shall be preferred for
vertical support. Safety barriers shall be provided at these supports for their protection as
well as for safety of road users. The pedestal of support columns shall be flushed with the
ground but in no case shall protrude for more than 15cm from ground level.

6.17 While planning for VMS, the messages and their formatting shall be standardized
and approval sought from the Ministry, specially for National Highways. Any deviation
should be referred to the Ministry and should be used only if approved.

7. Implementation

7.1 In order to ensure that road network is provided with proper, correct and uniform
traffic signs and markings, the road authority would take the following steps:

- This circular would be sent to all field units for strict compliance;
- In the process of preparing a detailed project report for improvement of a stretch of
  road, the provisions of this circular would be complied with;
- The provision of signs and markings shall be reviewed for existing highways and the
  same shall be provided and/or corrected as per IRC:67 and IRC:35.

7.2 While preparing the detailed project report for improvement of a section of
National Highway or any other road, separate detailed drawings shall be prepared
showing the exact location and type of traffic signs and details of road markings to meet
specific requirements at different locations of the road.

7.3 The officers in charge for the project at the level of Chief Engineer / CGM (in case
of NHAI) shall ensure that the design team is fully aware of this circular and prepare the
detailed plan for traffic sings and markings accordingly.

7.4 It shall be ensured by officers in charge at the level of Chief Engineers in the
Ministry, in States, in BRO and in NHAI that all the traffic signs and markings conform to
IRC 67 and 35 respectively. All non-conforming and defective signs and markings shall
be removed and replaced immediately. The expenditure on the same can be made from
Annual Plan.

7.5 For projects to be implemented from budgetary sources, the bill of quantity would
include all such items for a detailed provision for traffic signs and markings. The BOQ
would also include the signs and markings planned and to be provided in the construction
zone (s) as per IRC: SP:55.

7.6 During the execution of the proposed improvement, it shall be ensured by the
officer in charge at the level of Chief Engineer/CGM (in case of NHAI) that the detailed
plan for traffic signs and markings has been executed at site with correct traffic signs in accordance with IRC:67 and Road Markings in accordance with IRC:35. Any sign or marking not found in accordance with these standards shall be immediately replaced at the risk and cost of the concerned contractor / supplier.

7.7 For projects to be implemented under PPP, it would be ensured by Independent Engineer and Highway Authority that the Concessionaire complies with the relevant Schedule(s) and prepared a detailed plan for traffic signs and pavement markings for Project Highway.

7.8 In case of projects under PPP, the responsibility of providing detailed, correct and uniform system of signs and markings shall rest with the Concessionaire. The Independent Engineer shall ensure this. Any default by the Concessionaire and failure to rectify within the prescribed time limit when pointed out by the Independent Engineer shall be considered as a breach, in accordance with the relevant provisions contained in the agreement.

7.9 In case, any non-compliance of this circular and / or any case of non-uniform and incorrect signs and markings provided by the field unit on any stretch or section of National Highway comes to notice, the same shall be reviewed by a Committee constituted by DG(RD) for the purpose of rectification and suitable penal action which could be through invoking the powers available under Central Road Fund Act.

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## Annexure-I

Ministry's Circulars pertaining to Road Signs & Marketing

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SPECIFICATIONS, GUIDELINES AND CODES OF PRACTICE FOR TRAFFIC SIGNS AND ROAD MARKINGS AND OTHER FEATURES OF ROAD SAFETY

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<td>IRC:35-1997</td>
<td>Code of Practice for Road Markings (with Paints) (First Revision)</td>
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<td><strong>Road Safety &amp; Traffic Management</strong></td>
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<td>2.</td>
<td>IRC:79-1981</td>
<td>Recommended Practice for Road Delineators</td>
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<td>5.</td>
<td>MORT&amp;H</td>
<td>Manual for Safety in Road Design</td>
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